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Outline of Contents  
(Titles underlined)

✓ CANALS IN UNITED STATES HISTORY ✓

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Early freight carriers were slow

Ox team transporting lumber thru mountainous country

States which were built up with the help of canals

Map shows N. E. United States and indicates dismal swamp region 1784 (Va.); Champlain, 1822, Oswego 1828, Erie 1825, N.Y., Penn State System, 1820 - 40. Chesapeake and Ohio, Md. 1850, Ohio - Miami 1828, Cincinnati Dayton 1828.

Pointer indicates Me., Mass., Conn.

Map indicates Chicago and LaSalle joined by Ill.-Mich. Canal 1848.

Map indicates Gulf region.

Lake Pontchartrain, La. 1832, New Orleans, Texas, Galveston,

Brazos 1851 - 67

Map indicating Oregon, shows Falls, Oregon City, Salem, Willamette 1873.

How population increased during the era of Canal building 1820 - 1840.

<u>Year</u>	<u>Population</u>
1820	9,633,822
1830	12,866,020
1840	17,069,453

Actual work on the Erie Canal was begun in 1817 by Governor De Witt Clinton of New York

Picture of De Witt Clinton

A new chapter in our commercial development began with its opening in 1825

Abandoned Erie canal - no signs of civilization but a telegraph pole.

It had cost \$10.00 to ship a barrel of flour from Buffalo to Albany.  
The Erie canal cut the cost to 30 cents

Locks let barges past the many waterfalls

Old fashioned lock in operation

A chain of prosperous towns and cities grew up beside the canal

Map of N. Y. state. Pointer runs from Buffalo to N. Tonawanda, Lockport, Rochester, Syracuse, Oneida, Rome, Utica, Canajoharie, Troy

Map indicates New York State's Canals; Shows: New York Barge Canal, Oswego 1826, L. Oneida, Finger Lakes project, Lake Cayuga, Lake Seneca, Erie, 1825.

Placard: (Railroads competing 1840)  
N. Y. Railroad routes are indicated.

Map indicates Pa. Canal system 1840

Placard: (Railroads competing 1840)  
Pennsylvania routes are indicated.

But railroads became the rivals of canals as freight carriers . . . . .

Railroad pier extending into the water.

. . . . . and many small canals were abandoned

Abandoned canal overgrown with lilies.

However, rail rates have continued to rise . . . .

Cost of shipping a bushel of wheat from Buffalo to New York

<u>Year</u>	<u>By Rail</u>	<u>By Canal</u>
1900	4 - 4½ ¢	22¢
1910	6½ ¢	3 to 5¢
1920	11 - 14 ¢	9 ¢

. . . so that, for economy, barge canals are being used

Great New York State Barge Canal - completed 1910

Pictures of barge canal, locks, and close-up of locks.

Scene of barge in canal.

Other canals were built to avoid dangerous rapids or shorten distances

Map of Cape Cod 1916.

Placards:  
(Sandwich Harbor)  
(Buzzards Bay )

Map of Niagara Falls region showing Lakes Erie and Ontario, Welland Canal 1829--1920. Port Dalhousie Feeders, Niagara Falls, Ft. Colborne.

Map Sault Ste. Marie Canal 1855 - 1916; showing:  
Falls, Canadian, U.S.; North and South Channels  
and Power Channel.



Three main types of canals have influenced this country's growth

1. Those which served as water highways before the railroads came
2. Those by which ships reach seaports safely, or avoid obstacles in lakes and rivers
3. The Panama Canal connecting the Atlantic and Pacific Oceans

The Panama Canal shortens the ship route from New York to Pacific Ocean ports

Map of Panama Canal showing Atlantic and Pacific Oceans, Colon, Gatun, Panama Canal Zone, and route through the canal.

Map of North and South America showing route from New York to San Francisco via Cape Horn - (40 to 45 days)

Route via canal (18 to 20 days)

It saves freight expense across the United States

Cost of shipping 100 pounds from New York to San Francisco

<u>Machinery</u>	<u>Dry Goods</u>
\$2.40 via railroad	\$4.62 via railroad
1.92 via Panama Canal	3.70 via Panama Canal

Map showing western hemisphere

Placard: (Rates via canal save 1/5 cost via rail)

Other great waterways are planned for early development

Map: shows eastern United States and Mississippi Valley  
Also: Lakes, St. Lawrence, Gulf of Mexico,  
Later adding, Georgian Bay, Lake Nipissing, Ottawa River,

Show: St. Lawrence, Lakes, Gulf of Mexico, Mississippi,  
Illinois and Chicago.

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